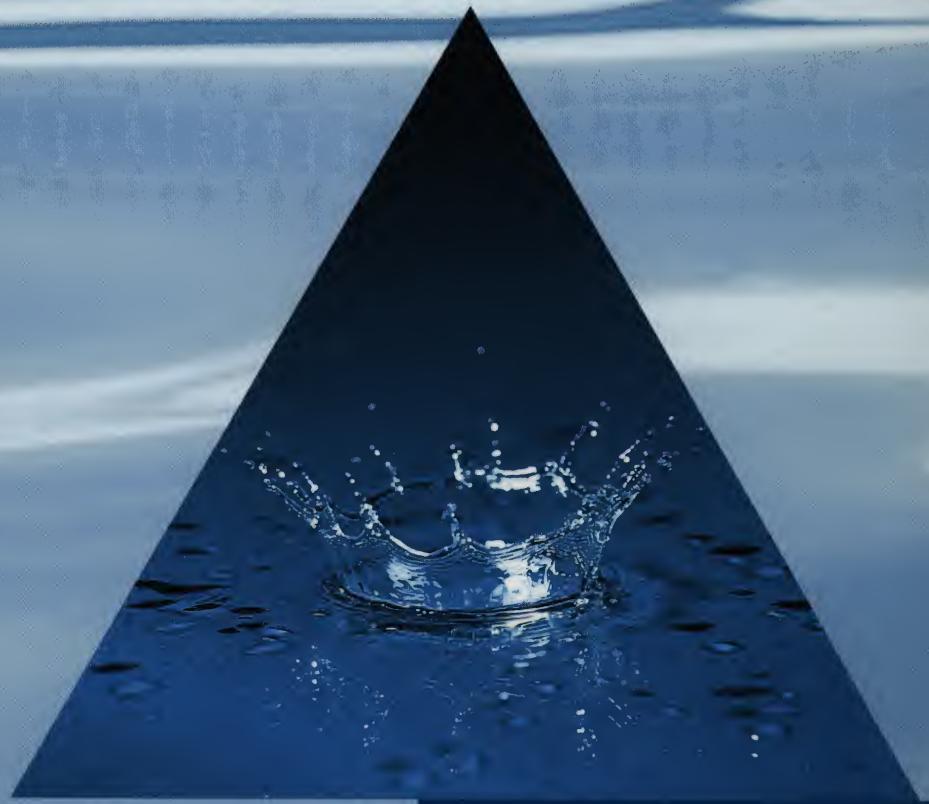


 **Reflection Network Series®**





▼ Version 2.2



WRQ Reflection Network Series®



User Guide

▲ D O S

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Reflection Network Series User Guide

Version 2.2

September 1994

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Table of Contents

Chapter 1

| | |
|---|----------|
| Welcome to the Reflection Network Series | 1 |
| Product Summary | 2 |
| When All Else Fails | 3 |

Chapter 2

| | |
|---------------------------------------|----------|
| Reflection for Windows | 5 |
| Defining a Single Connection | 6 |
| Defining Multiple Connections | 7 |
| Managing Sessions | 8 |
| Typical Scenarios: Step by Step | 9 |
| NS/VT Sessions | 9 |
| LAT Sessions | 10 |
| Telnet Sessions | 11 |
| Windows Sockets Sessions | 13 |

Chapter 3

| | |
|---|-----------|
| Reflection for DOS | 15 |
| Using the Connection Manager | 16 |
| Typical Scenarios: Step by Step | 18 |
| NS/VT Sessions | 19 |
| LAT Sessions | 21 |
| Telnet Sessions | 24 |
| Configuration Options | 26 |
| Suspending Sessions | 26 |
| Resuming Sessions | 27 |
| Disconnecting Sessions | 27 |
| Uninstalling Reflection Network Series Programs | 28 |

| | |
|----------------------------------|-----------|
| Configuration Forms | 29 |
| LAT Connection ODI | 31 |
| LAT Connection NDIS | 32 |
| TCP Connection ODI | 33 |
| TCP Connection NDIS | 35 |
| NS Connection ODI | 37 |
| NS Connection NDIS | 39 |
| 3000 Connection ODI | 41 |
| 3000 Connection NDIS | 43 |

Welcome to the Reflection Network Series

The Reflection Network Series lets you use Reflection to reach multiple hosts with multiple protocols, without losing the all-important link to your PC server.

The Reflection Network Series also offers options for using DOS-based or Windows Sockets-based virtual terminal protocols.

Reflection—Reflection for Windows, the Connection Manager in Reflection products for DOS, or Reflection X—lets you establish connections, and suspend or resume them. In Reflection for DOS, the state of individual sessions is saved as you switch from one to another.

During installation, you are asked a lot of questions about your PC and network. What you are asked depends on which product you have; a series of forms, one for each Reflection Network Series product, is at the back of this manual. You need to answer those questions during the install unless your software has been installed by a system administrator.

Product Summary

The LAT Connection

The LAT Connection gives PCs access to hosts using the LAT protocol over Ethernet. Reflection uses the LAT support provided with VAX/VMS and some other hosts and terminal servers. You get the full Reflection Network Series driver support for simultaneous access to PC networks such as Novell NetWare and LAN Manager.

The TCP Connection

The TCP Connection provides a complete TCP/IP protocol stack, with Telnet and FTP services; LAT support is also included. With the TCP Connection, you do not have to buy additional third-party TCP/IP network software to establish Telnet or FTP sessions. Full Reflection Network Series driver support is included for simultaneous access to PC networks such as Novell NetWare and LAN Manager.

The NS Connection

The NS Connection provides access to HP hosts using the NS/VT protocol. It includes full Reflection Network Series driver support for simultaneous access to PC networks such as Novell NetWare and LAN Manager. It is the economical solution for users who want access to HP hosts and do not need other protocols.

The 3000 Connection

The 3000 Connection gives a PC with a single network interface card the capability to communicate with an array of hosts—HP, VAX, UNIX—and an array of servers—Novell, LAN Manager, or others. You can maintain NS/VT terminal sessions on an HP 3000 and have simultaneous access to PC networks, Telnet and FTP sessions, and LAT sessions.

The NFS Option

The Reflection Network Series NFS Option enables the file and print servers on your local area network to appear as local drives and printers. From the DOS prompt or from Microsoft Windows, you can share printers, transfer files, and run programs on your PC that are stored on a network server.

When All Else Fails

If you can't make a connection to your host and/or PC network server with your Reflection Network Series software, consult your system administrator first.

If you use Windows Sockets, a wide range of information is available from the RNS icon. To see this information, click the RNS icon and choose About.

When all else fails, call our technical support team at the number shown on page ii. When you call, it's best if you're seated at your PC and have a printed copy of the following files:

- ▲ AUTOEXEC.BAT in your root directory
- ▲ CONFIG.SYS in your root directory
- ▲ NET.CFG or PROTOCOL.INI (WRQNET is the default directory)
- ▲ STARTNET.BAT (WRQNET is the default directory)
- ▲ If you use Windows, SYSTEM.INI in your Windows directory



Reflection for Windows

With the Reflection Network Series, Reflection for Windows users gain the convenience of starting and maintaining multiple connections from a single menu. You can suspend, activate, modify, and close as many as 16 sessions in one copy of Reflection. To install it, you'll need:

- ▲ Reflection for Windows, version 3.7 or higher
- ▲ Microsoft Windows, version 3.0 or higher

Reflection FTP is available with Reflection for Windows version 4.1 or higher and Reflection X.

Using Reflection X and Reflection 3270 is not covered here; see your Reflection X or Reflection 3270 documentation for information on how these products work with the Reflection Network Series.

You must run the batch file that loads Reflection Network Series software (STARTNET.BAT by default) before you start Windows. If you're using Windows Sockets, the Window Sockets support modules are loaded automatically within Windows when you start a Windows Sockets-compatible application, but STARTNET.BAT is still required.

Defining a Single Connection

When you start Reflection the first time, the Basic Connection dialog box prompts you for your Connection Type. When you choose one of the network connections supported by the Reflection Network Series (VT-MGR, LAT, or TELNET-MGR), you are prompted for additional information, as described in your *Reflection User Guide*:

- ▲ When VT-MGR (the NS/VT protocol) is selected, supply a host name, which will probably be in the form of a Probe node name or IP address.
- ▲ If you select LAT, a box appears for the service name. A list box below it shows the available LAT services. If your LAT service requires a password, enter it in the password box.
- ▲ With TELNET-MGR, the host name can be in the form of an IP address or Internet name from your HOSTS file, or it might come from a file that resides on your domain name server.

This node or service information can be saved in your Reflection for Windows settings file so that you won't have to retype it each time you want to make a connection. Just choose the Save command from the File menu to make this setting available the next time you run Reflection.

Defining Multiple Connections

If you only require one Connection Type, simply save your configuration to your default settings file. Using the same settings file, you can then open several sessions that use the same type of connection.

One way to manage multiple connections is to create a different settings file for each host, and then give the settings file a name that is descriptive of the host or its use. For example, you might create these settings files:

- ▲ MAINVAX.R2W
- ▲ UNIXBOX.R2W
- ▲ EMAIL.R1W

The name of the settings file is shown in the title bar of Reflection's Terminal Window, so you can quickly identify the host to which you are connected. You can also use the Color command to select a different background color for each host.

Assigning an icon to a settings file means that you can run a copy of Reflection with that particular configuration right from the Program Manager. Choose Save As from the Reflection File menu, then select the Save Icon check box. This feature is available in version 4.0 and higher. An example of this approach is shown later in "Telnet Sessions."

Another way to juggle more than one connection type is to create multiple connection templates. A template is not tied to a particular settings file: it can be used by different copies or instances of Reflection.

All template operations are available from the Connection menu. When you choose Open from the Connection menu, you see a list of all the templates (which are stored in the REFLECT.INI file); this includes templates defined in any Reflection for Windows products. See the *Reflection for Windows User Guide* or the online help for information on creating a template.

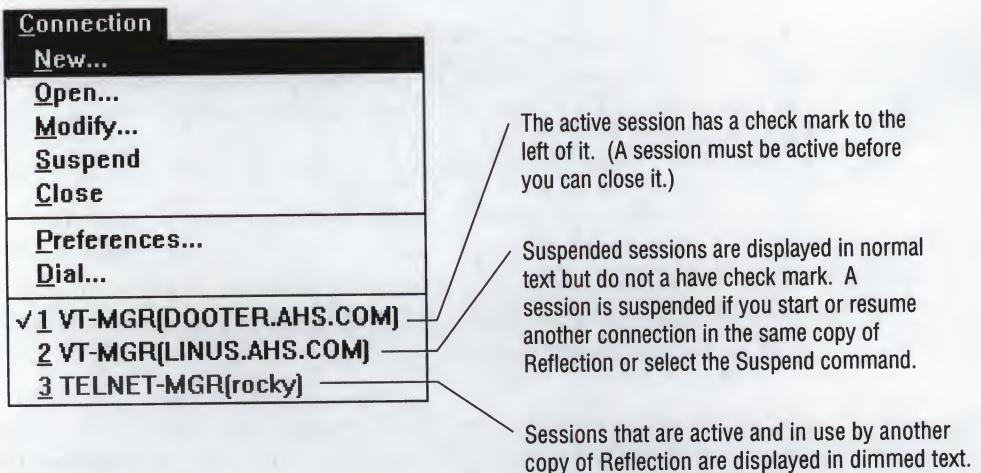
Managing Sessions

There are two ways to maintain multiple active sessions:

- ▲ Run multiple copies of Reflection and switch between the open Reflection windows. This is the most common way of maintaining multiple sessions. The following scenarios illustrate this.
- ▲ Run a single copy of Reflection and use the New or Open command on the Connection menu to establish additional sessions.

Regardless of how multiple sessions are established, the bottom of the Connection menu shows you a summary of all of your sessions.

This figure shows a Connection menu with three sessions:



The Preferences command on the Connection menu lets you decide how to handle your connection options when you start Reflection and what to do with active sessions when you exit Reflection.

There are Reflection command language equivalents for these network choices and configuration options. See your *Reflection Network Series Reference Card*, or refer to the online help in Reflection for Windows.

Typical Scenarios: Step by Step

This section presents three Connection Manager scenarios: establishing NS/VT sessions, LAT sessions, and Telnet sessions.

You may not have the host applications and files that are used in these examples—that's not important. Just substitute your applications for the ones mentioned here.

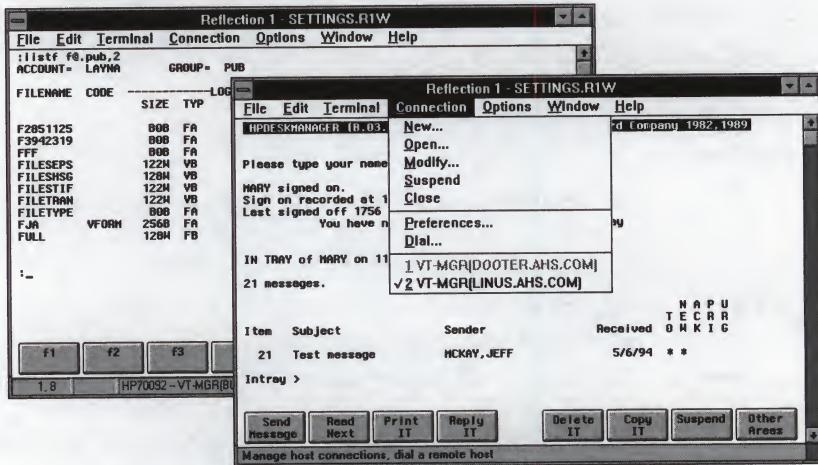
NS/VT Sessions

Support for the NS/VT protocol is part of the NS Connection and the 3000 Connection.

These steps demonstrate how to use Reflection 1 for Windows to establish two sessions to an HP 3000 host using the NS/VT protocol, switch between sessions, suspend sessions, and then disconnect them:

1. Start Reflection 1 for Windows and choose New from the Connection menu.
2. Select VT-MGR as your Connection Type and enter the name for your HP host. Your system administrator can give you a list of the hosts to which you have access.
3. Choose Connect and you should see your host prompt. Log on and do a file listing, for example: LISTF F@.PUB, 2.
4. Go to the Program Manager and run Reflection again.
5. Choose New from the Connection menu to establish a session and then log on.
6. Start a host application, such as HP DeskManager. At the bottom of the Connection menu you'll see two sessions: the one you just started has a check mark next to it. The first session is dimmed; it is the one in use by another copy of Reflection. The other copy of Reflection also lists all of the sessions.

7. To switch from one session to another, just click on the appropriate window. To temporarily suspend a session, choose Suspend from the Connection menu; to end a session, choose Close.



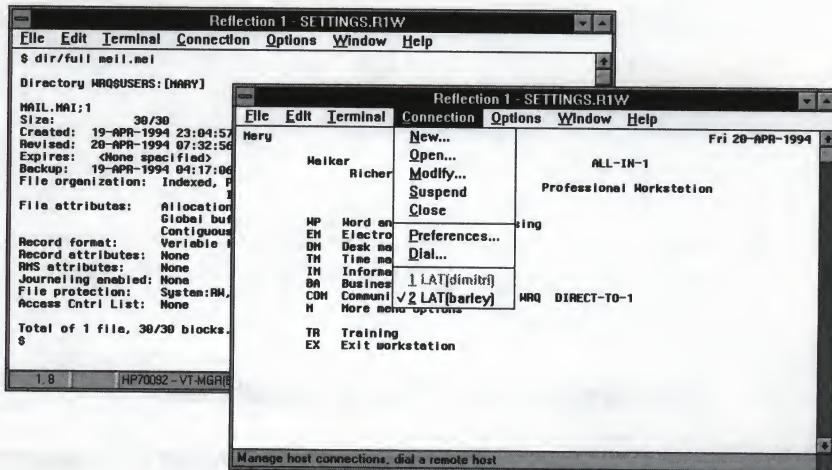
LAT Sessions

Support for the LAT protocol is part of the LAT Connection, TCP Connection, and 3000 Connection.

These steps demonstrate how to use Reflection 4 for Windows to establish two sessions to a VAX host using the LAT protocol, switch between sessions, suspend sessions, and then disconnect them:

1. Start Reflection 4 for Windows and choose New from the Connection menu.
2. Select LAT as your Connection Type and enter a service name, or select one from the Service list box.
3. Choose Connect and you should see your host prompt. Log in and do a file listing, for example: DIR/FULL STRINGS.COM.
4. Go to the Program Manager and run Reflection again.

5. Choose New from the Connection menu to establish a session and then log in.
6. Start a host application, such as ALL-IN-1. The Connection menu shows two sessions: the one you just started has a check mark next to it. The first session is dimmed; it is the one in use by another copy of Reflection. The other copy of Reflection also lists all of the sessions.
7. To switch from one session to another, just click on the appropriate window. To temporarily suspend a session, choose Suspend from the Connection menu; to end a session, choose Close.



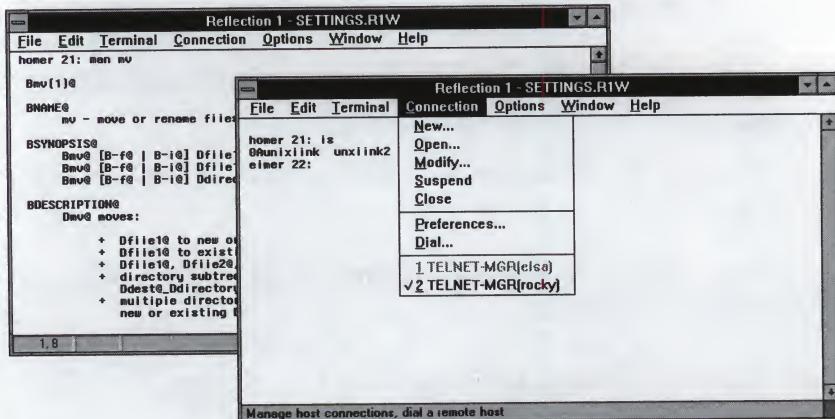
Telnet Sessions

Support for the Telnet protocol is part of the 3000 Connection and the TCP Connection.

These steps demonstrate how to use Reflection 2 for Windows to establish two sessions to a UNIX host:

1. Start Reflection 2 for Windows and choose New from the Connection menu.
2. Select TELNET-MGR as your Connection Type and enter a host name. This UNIX host name is in your HOSTS file (if you have one), or on your domain name server.

3. Choose Connect and you should see your host prompt. Bring up some system help, such as the documentation for the "mv" command: man mv.
4. Reflection lets you save your settings as an icon. To do this, choose Save As from the File menu and select the default file name (SETTINGS.R2W).
5. Select the Save Icon check box, then choose Save. In the Save Settings As Icon dialog box, type UNIX in the Description box and choose OK.
6. Go to the Program Manager and run Reflection again by clicking on the icon labeled UNIX.
7. Establish a session and then log in. The Connection menu shows two sessions: the one you just started has a check mark next to it. The first session is dimmed; it is the one in use by another copy of Reflection. The other copy of Reflection also lists all of the sessions.
8. To switch from one session to another, just click on the appropriate window. To temporarily suspend a session, choose Suspend from the Connection menu; to end a session, choose Close.



Windows Sockets Sessions

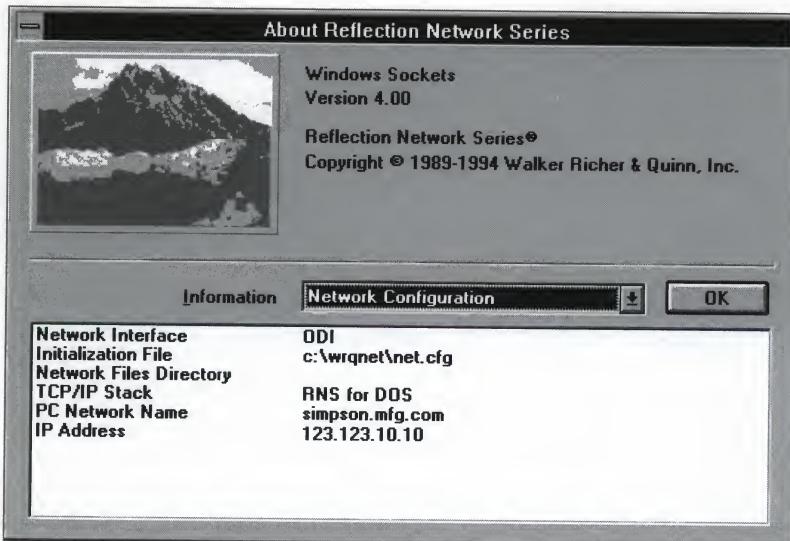
If you see the RNS icon on your desktop when you run a Telnet or NS/VT session in Reflection for Windows 4.1 or above, you're using Windows Sockets support. The icon disappears when you exit Reflection and any other applications that use the Reflection Network Series Windows Sockets support. For example, when you run Reflection 2 for Windows configured for TELNET-MGR and you connect to your host, you'll see the RNS icon appear on your desktop:



RNS

When you exit Reflection, the icon disappears.

To see details about how the Reflection Network Series is set up on your machine, click the RNS icon on your desktop and choose About on the RNS icon menu.



The upper half of the About Reflecton Network Series dialog box displays the version of WRQ's Windows Sockets support module.

Select an item from the Information list box to see a display of information about that aspect of your configuration.

When you first open the About Reflection Network Series dialog box, you'll see a summary of your network configuration, including your network interface, initialization file, TCP/IP stack, PC network name, and IP address.

Choose System in the Information box to display system settings for your PC, including the version of Windows, the version of DOS, and available memory.

Choose Modules in the Information box to display a summary of Reflection Network Series Windows Sockets components, including information on each module—its filename, version, file size, and whether it's loaded or not.

Reflection for DOS

With Reflection products for DOS version 4.2 and higher, you can have a series of connections with different protocols—LAT, NS/VT, Telnet, and FTP—and switch between them without changing the Connection Type or using a separate configuration file.

For example, move from a Telnet session to a LAT session. A “state” file (like the one you create when you exit from Reflection with Alt-B) is created. Everything about your session—your settings, what was in display memory—is restored when you return to it.

This section uses the Reflection for DOS term “Connection Type” instead of the term “datacomm port,” used in earlier versions of Reflection for DOS.

This section does not cover how to use the Reflection Network series with Reflection 8, WRQ’s TN3270 terminal emulation product. See your Reflection 8 documentation for more information.

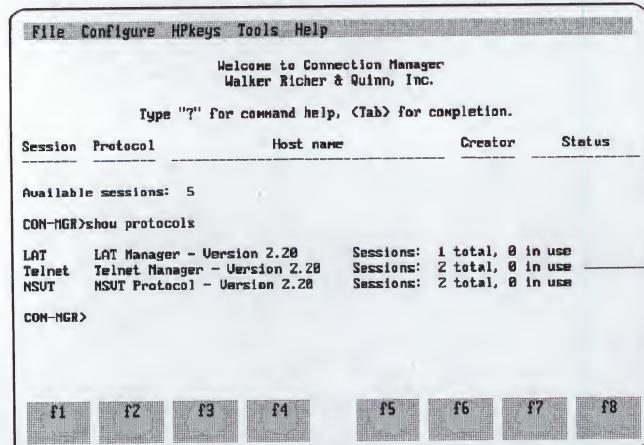
Using the Connection Manager

To use the Connection Manager, first run the batch file that loads the Reflection Network Series software into memory; it is called STARTNET.BAT by default. In Reflection, set the Connection Type to CON-MGR.

If you are running a Reflection product for DOS from within Windows (in a "DOS box"), run your Reflection Network Series software before starting Windows. Then start Reflection within Windows using a program information file (*.PIF) that was shipped with Reflection.

Before you start any sessions, the Connection Manager shows the number of possible sessions. Type `SHOW PROTOCOLS` at the Connection Manager prompt and press Enter to see what protocols are available to you.

Once you make connections, this same screen shows a summary of all sessions, the protocol used for each one, the Reflection emulator that created the session, and its status:



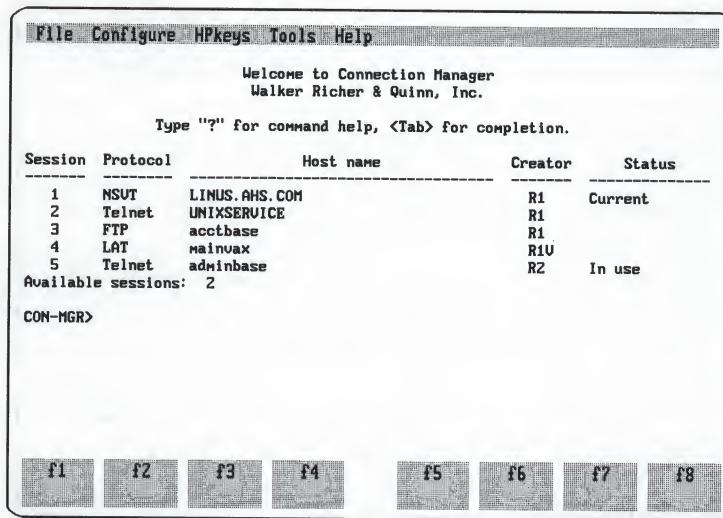
The screenshot shows a window titled "Connection Manager" with the sub-tittle "Welcome to Connection Manager" and "Walker Richer & Quinn, Inc.". The menu bar includes File, Configure, HPkeys, Tools, and Help. The main area displays session information in a table:

| Session | Protocol | Host name | Creator | Status |
|------------------------|-------------------------------|-----------|---------|-----------------------------|
| Available sessions: 5 | | | | |
| CON-MGR>show protocols | | | | |
| LAT | LAT Manager - Version 2.20 | | | Sessions: 1 total, 0 in use |
| Telnet | Telnet Manager - Version 2.20 | | | Sessions: 2 total, 0 in use |
| NSVT | NSVT Protocol - Version 2.20 | | | Sessions: 2 total, 0 in use |

At the bottom, the prompt "CON-MGR>" is followed by a series of function keys labeled f1 through f8.

With the Telnet protocol, you can FTP to any destination that has an FTP server running

The next figure shows the versatility of the Connection Manager. Later, in "Typical Scenarios," there are more detailed examples.



In this example, the Connection Manager was configured to allow seven sessions: there are five active sessions, all of which are suspended, and two more available. The first four were created using Reflection 1 for DOS.

Session 4 was created by running Reflection 1, changing its terminal class from HP to DEC, and establishing a session using the LAT protocol. You can use Alt-N to switch between sessions with different terminal classes as long as you do not put Reflection in background (that is, use the hot-key).

Session 5 was created by pressing the hot-key, Alt-(right)Shift, in Reflection 1, and then running Reflection 2 at the DOS prompt with the /O switch (R2 /O). Its status is "In use" (in use by another copy of Reflection); you cannot resume it.

Typical Scenarios: Step by Step

This section presents three Connection Manager scenarios: establishing NS/VT sessions, LAT sessions, and Telnet and FTP sessions. You may not have the host applications and files that are used in these examples—that's not important. Just substitute your own applications for the ones in these sample sessions.

First, here are the keystrokes you should be familiar with:

- Ctrl-F8** Suspends the current session and returns to the Connection Manager prompt.
- Ctrl-F10** Disconnects the session you are in, or the one you are trying to start, and returns to the Connection Manager prompt.
- Alt-N** Moves to the next session. If you have more than one active session, you can switch between sessions using this keystroke.

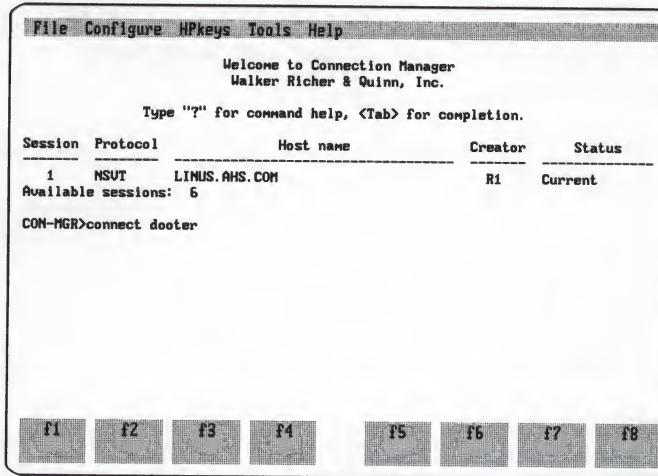
A summary of all the Connection Manager commands is included in the *Reflection Network Series Reference Card*.

NS/VT Sessions

Support for the NS/VT protocol is part of the NS Connection and the 3000 Connection.

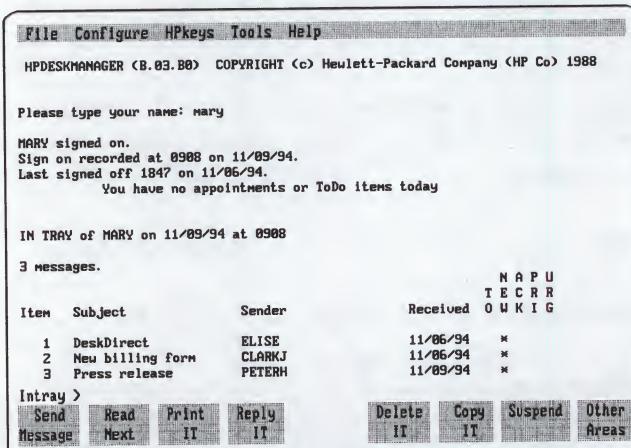
These steps show you how to use Reflection 1 for DOS to establish two sessions to an HP 3000 host using the NS/VT protocol, switch between sessions, suspend them, and then disconnect them:

1. At the CON-MGR> prompt, make a host connection by typing CONNECT <host>, where <host> is a name for your HP host. Your system administrator can give you a list of the hosts to which you have access.

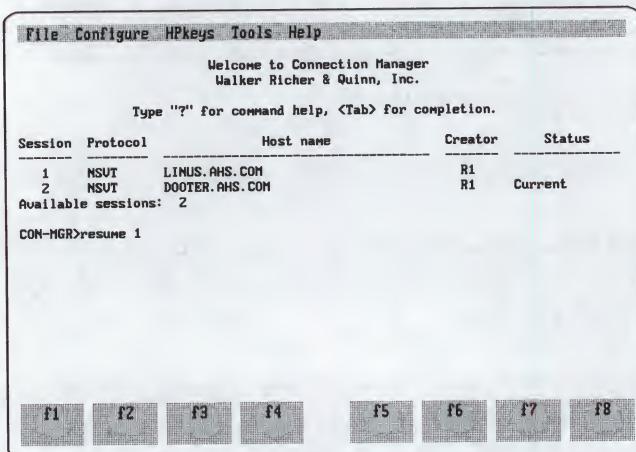


2. Log on at your host prompt (MPE).
3. Execute an MPE command such as a file listing: LISTF F@.PUB, 2.
4. Press Ctrl-F8 to suspend session 1 and return to the Connection Manager. A summary of your current sessions is automatically shown when you return to the CON-MGR> prompt.
5. Type CONNECT <host> to establish a second session and log on. Your second session can either be to another host or to the same one.

- Start a host application, such as HP DeskManager.



- Press Alt-N to switch between sessions 1 and 2. Every time you switch, Reflection saves all of your settings and display memory.
- Press Ctrl-F8 to suspend all sessions and return to the CON-MGR> prompt. Now you see two sessions listed.
- Type RESUME 1 to get back to session 1.



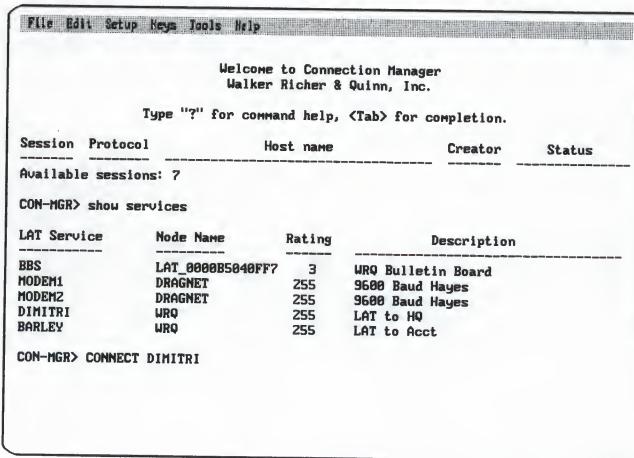
10. In session 1, press Ctrl-F10. You have disconnected session 1 and are back at the CON-MGR> prompt. Only one session is listed.
11. Type DISCONNECT ALL. This command disconnects all sessions, including those started in a different copy of Reflection.

LAT Sessions

Support for the LAT protocol is part of the LAT Connection, TCP Connection, and 3000 Connection.

These steps demonstrate how to use Reflection 2 for DOS to establish two sessions to a VAX host using the LAT protocol, switch between sessions, suspend them, and then disconnect them:

1. At the CON-MGR> prompt, type SHOW SERVICES. Then type CONNECT <service>, where <service> is a name listed in the services table.



The screenshot shows the Connection Manager window with the following content:

File Edit Setup Keys Tools Help

Welcome to Connection Manager
Walker Richer & Quinn, Inc.

Type "?" for command help, <Tab> for completion.

| Session | Protocol | Host name | Creator | Status |
|-----------------------|----------|-----------|---------|--------|
| Available sessions: ? | | | | |

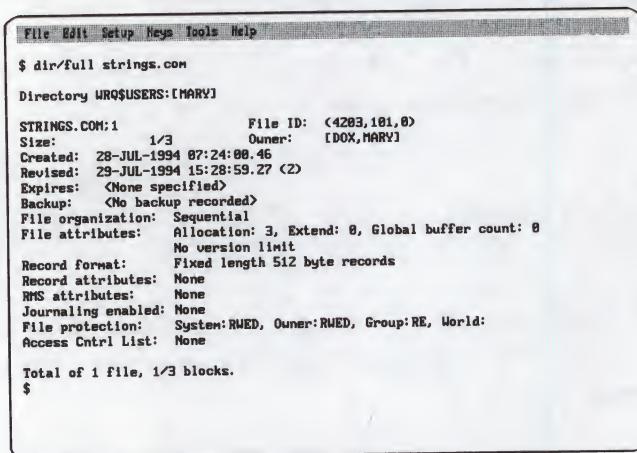
CON-MGR> show services

| LAT Service | Node Name | Rating | Description |
|-------------|------------------|--------|--------------------|
| BBS | LAT_0000B5040FF7 | 3 | WRQ Bulletin Board |
| MODEM1 | DRAGNET | 255 | 9600 Baud Hayes |
| MODEM2 | DRAGNET | 255 | 9600 Baud Hayes |
| DIMITRI | WRQ | 255 | LAT to HQ |
| BARLEY | WRQ | 255 | LAT to Acct |

CON-MGR> CONNECT DIMITRI

2. Log in at the system prompt.

3. Execute a DCL command, such as a file listing:



```

File Edit Setup Msys Tools Help
$ dir/full strings.com
Directory WRQ$USERS:[MARV]

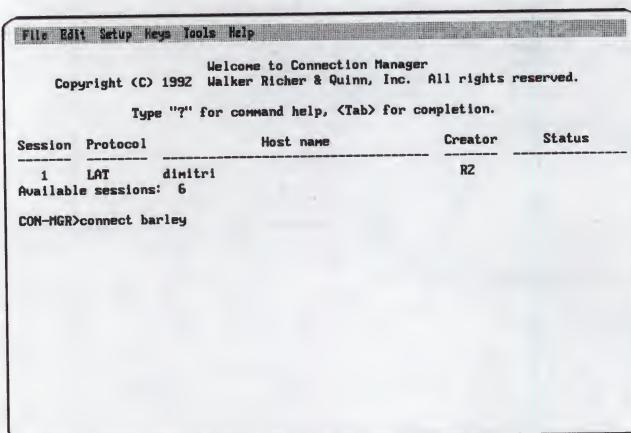
STRINGS.COM:1          File ID: <4203,181,0>
Size:      1/3          Owner:  [DOX,MARV]
Created:  28-JUL-1994 07:24:00.46
Revised:  29-JUL-1994 15:28:59.27 (2)
Expires:  <None specified>
Backup:   <No backup recorded>
File organization: Sequential
File attributes: Allocation: 3, Extend: 0, Global buffer count: 8
                  No version limit
Record format:  Fixed length 512 byte records
Record attributes: None
RMS attributes: None
Journaling enabled: None
File protection: System:RWED, Owner:RWED, Group:RE, World:
Access Cntrl List: None

Total of 1 file, 1/3 blocks.
$
```

DIR/FULL STRINGS.COM.

4. Press Ctrl-F8 to suspend session 1 and return to the Connection Manager. A summary of your current sessions is automatically shown when you return to the CON-MGR> prompt.

5. Type CONNECT <service> to establish a second session and log in.



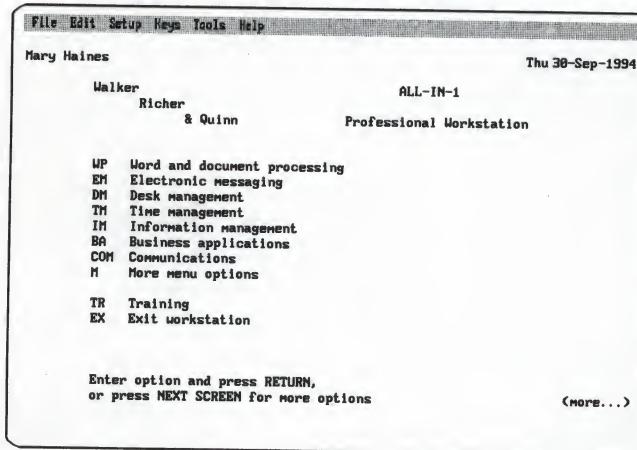
```

File Edit Setup Msys Tools Help
Welcome to Connection Manager
Copyright (C) 1992 Walker Richer & Quinn, Inc. All rights reserved.
Type "?" for command help, <Tab> for completion.

Session  Protocol      Host name      Creator      Status
1        LAT           dimitri       R2

Available sessions: 6
CON-MGR>connect barley
```

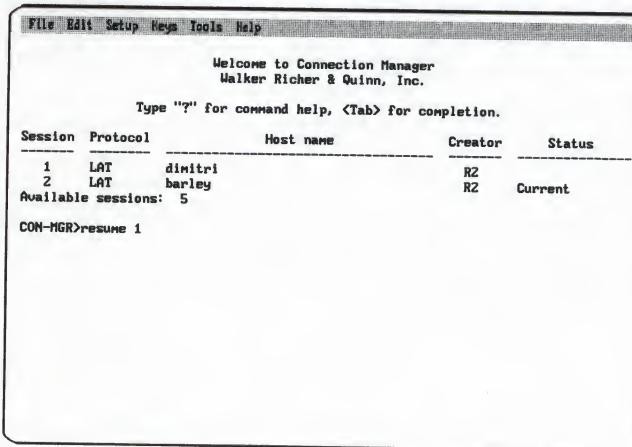
6. Start a host application such as ALL-IN-1.



7. Press Alt-N to switch between sessions 1 and 2. Every time you switch, Reflection saves all of your settings and display memory.

8. Press Ctrl-F8 to suspend all sessions and return to the CON-MGR> prompt. Now you see two sessions listed.

9. Type RESUME 1 to get back to session 1.



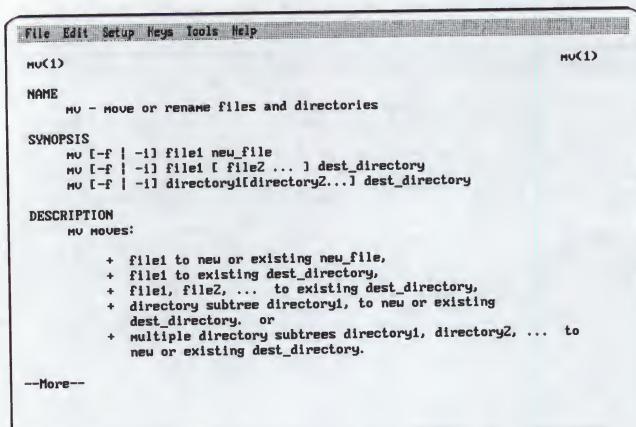
10. Press Ctrl-F10. You have disconnected session 1 and are back at the CON-MGR> prompt. Only one session is listed.
11. Type DISCONNECT ALL. This command disconnects all sessions, including those started in a different copy of Reflection.

Telnet Sessions

Support for the Telnet protocol is included with Reflection, the 3000 Connection, and the TCP Connection.

These steps show you how to use Reflection 2 for DOS to establish two sessions to a UNIX host: one session uses the Telnet protocol and the other uses FTP.

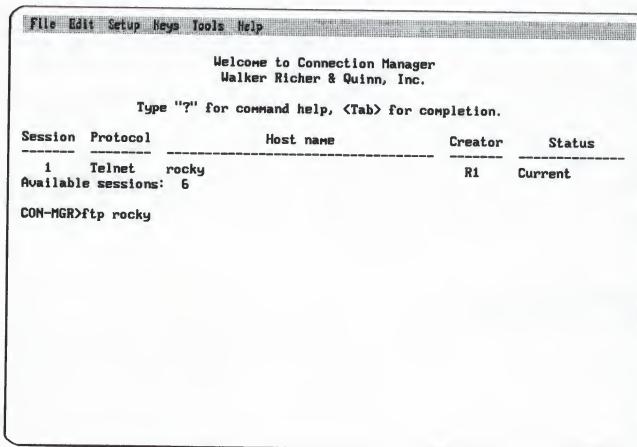
1. At the CON-MGR> prompt, make a host connection by typing TELNET <host>, where <host> is a name for a UNIX host in your HOSTS file (if you have one), or on your domain name server. (TELNET is an alias for the CONNECT command: it ensures that the Telnet protocol is used.)
2. Log in at the system prompt.
3. Execute a UNIX command such as the help for the "mv" command: man mv.



The screenshot shows a DOS window with a menu bar (File, Edit, Setup, Keys, Tools, Help) and a command line prompt (mv(1)). The output of the 'man mv' command is displayed, providing help for the 'mv' command. The output includes:

- NAME**
mv - move or rename files and directories
- SYNOPSIS**
mv [-f | -i] file1 new_file
mv [-f | -i] file1 [file2 ...] dest_directory
mv [-f | -i] directory1[directory2...] dest_directory
- DESCRIPTION**
mv moves:
 - + file1 to new or existing new_file,
 - + file1 to existing dest_directory,
 - + file1, file2, ... to existing dest_directory,
 - + directory subtree directory1, to new or existing dest_directory, or
 - + multiple directory subtrees directory1, directory2, ... to new or existing dest_directory.
- More--

4. Press Ctrl-F8 to suspend session 1 and return to the Connection Manager. A summary of your current sessions is automatically shown when you return to the CON-MGR> prompt.
5. Type FTP <host> to establish an FTP session and log in. The <host> must be an FTP server.



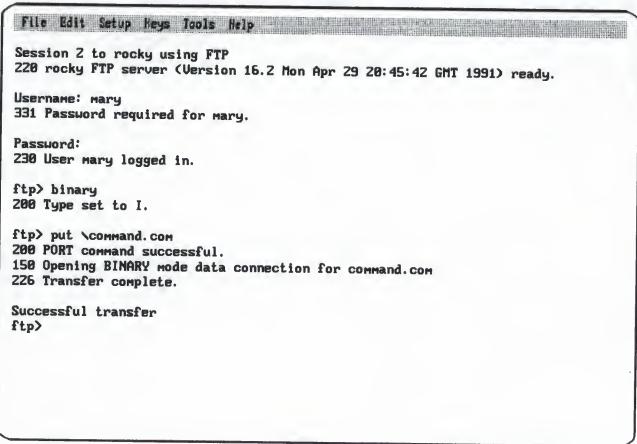
The screenshot shows the Connection Manager window with the following details:

- Menu bar: File, Edit, Setup, Keys, Tools, Help.
- Welcome message: Welcome to Connection Manager, Walker Richer & Quinn, Inc.
- Text: Type "?" for command help, <Tab> for completion.
- Session table:

| Session | Protocol | Host name | Creator | Status |
|---------|----------|-----------|---------|---------|
| 1 | Telnet | rocky | R1 | Current |

- Available sessions: 6
- Text: COM-MGR>ftp rocky

6. Do a binary transfer: type BINARY at the system prompt, press Enter, and then type PUT \COMMAND.COM to transfer this PC file to the host.



The screenshot shows the Connection Manager window with the following details:

- Session 2 to 'rocky' using FTP
- Text: 220 rocky FTP server (Version 16.2 Mon Apr 29 20:45:42 GMT 1991) ready.
- Text: Username: mary
- Text: 331 Password required for mary.
- Text: Password:
- Text: 230 User mary logged in.
- Text: ftp> binary
- Text: 200 Type set to I.
- Text: ftp> put \command.com
- Text: 200 PORT command successful.
- Text: 150 Opening BINARY mode data connection for command.com
- Text: 226 Transfer complete.
- Text: Successful transfer
- Text: ftp>

7. Press Alt-N to switch between sessions 1 and 2. Every time you switch, Reflection saves all of your settings and display memory.
8. Press Ctrl-F8 to suspend all sessions and return to the CON-MGR> prompt. Now you see two sessions and two protocols listed.
9. Type RESUME 1 to get back to session 1.
10. Press Ctrl-F10. You have disconnected session 1 and are back at the CON-MGR> prompt. Only one session is listed.
11. Type DISCONNECT ALL. This command disconnects all sessions, including those started in a different copy of Reflection.

Configuration Options

For most users, the defaults offered by Reflection and the Connection Manager will suffice. But as you start to use these products, you may want to change these settings. You may not want to save the "state" of each session, for instance, as you move from one to the other, or you might want Reflection to disconnect all of your sessions when you exit. Here are some of your configuration options.

Suspending Sessions

By default, Reflection Network Series session information is stored in a temporary "state" file similar to the "state save" file that is created when you exit Reflection with Alt-B. (These temporary files are deleted after they have served their purpose.)

Here are some guidelines for setting up a directory for these temporary files:

- ▲ Use the Setup program for Reflection for DOS.
- ▲ Designate a temporary directory yourself by adding the following DOS SET command to your AUTOEXEC.BAT file (the directory must be on non-removable media): SET RTMP=<directory>.

For better PC performance when storing these files, assign the directory where they are stored to a RAM drive if you have one set up on your machine. For example, if you have a RAM drive E: that is created when you reboot, add
SET RTMP=E to AUTOEXEC.BAT.

See your DOS documentation for information on setting up a RAM drive.

To confirm what directory Reflection is using for these files, you can use the variable \$TEMPDIR. Type the following on the Reflection command line: DISPLAY \$TEMPDIR

Note: Defining a directory on your PC for these temporary files is essential if you're running a server version of Reflection (for example, R2.EXE resides on a network drive). See the information provided with your server copy of Reflection.

Resuming Sessions

By default, a temporary file is created when you suspend a Reflection Network Series session (with Ctrl-F8 or by moving to another session with Alt-N), and it restores your session when you return to it.

If you want faster access to your sessions, you may want to disable the automatic screen refresh feature. To do so, go to the Reflection command line and type SET SESSION-STSAVE NO. You may need to press Enter or use a refresh key in the host application (for example, Ctrl-W on a VAX) to get the host to refresh your screen. To keep this setting, save your configuration file by choosing Save from the Reflection File menu.

You can control whether your screen is cleared between sessions if you set SESSION-STSAVE to NO. Set RESET-SESSION-SCREEN to NO if you want to see the session screen when the host aborts your session.

Disconnecting Sessions

By default, Reflection does not disconnect your sessions when you exit Reflection with Alt-X. When you return to Reflection, you are at the Connection Manager prompt, and sessions that were not disconnected can be resumed.

If you want sessions disconnected when you exit Reflection, go to the Reflection command line and type `SET DISCONNECT-ON-EXIT YES` before you establish any sessions. Then save your configuration file by choosing Save from the Reflection File menu.

If you exit Reflection with Alt-B, you are not disconnected regardless of the value of `DISCONNECT-ON-EXIT`.

Uninstalling Reflection Network Series Programs

A batch file called `STOPNET.BAT`, created as part of the Setup program, removes Reflection Network Series programs from memory. It uninstalls the same programs that `STARTNET.BAT` installs.

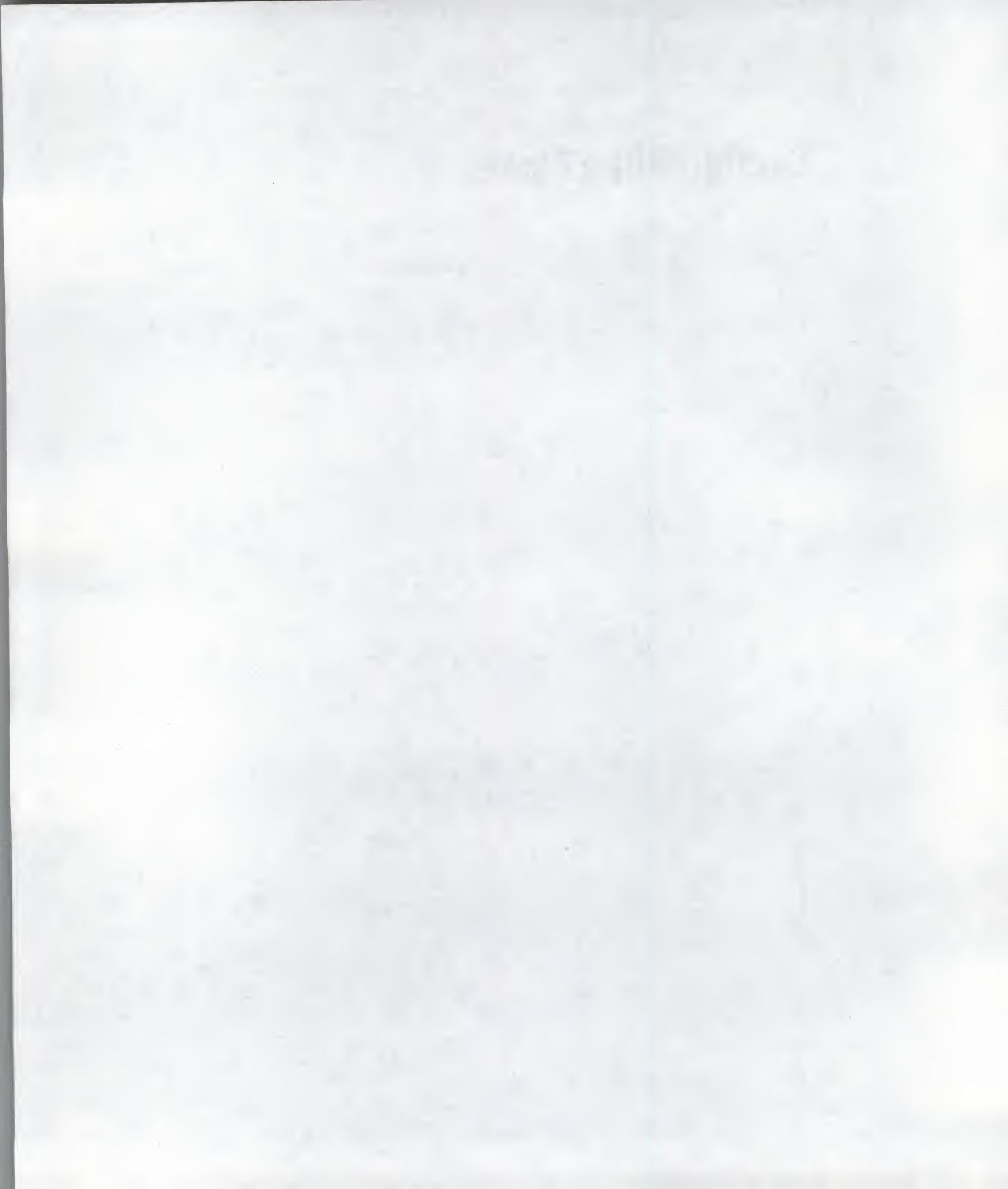
If you want to customize `STOPNET.BAT`, remember the following:

- ▲ The Reflection Network Series programs cannot be uninstalled from within Windows.
- ▲ You might want to uninstall only protocol-specific programs. For example, if you are set up to use both the NS/VT and LAT protocols, you might want to uninstall only the software related to one of them. Remember that the Connection Manager (`CONMGR.EXE`) is used by all protocols; it should not be uninstalled if another protocol requires it and you want to keep those sessions active.
- ▲ These programs cannot be uninstalled while Reflection is in the background (you have hot-keyed out of Reflection).
- ▲ Uninstalling a portion of the Reflection Network Series software disconnects the sessions that are associated with that portion, regardless of how `DISCONNECT-ON-EXIT` is configured in Reflection. For example, if you have `DISCONNECT-ON-EXIT` set to `NO` in Reflection 7, and you then uninstall the portion of the Reflection Network Series software that allows you to use the NS/VT protocol (`VTMGR.EXE`), all of your HP host sessions will be disconnected.

Configuration Forms

Use these forms to configure your PC or to note how your administrator has configured it for you.

A separate form for each product (both ODI and NDIS) is provided.



LAT Connection

Ask your System Administrator if you should use ODI or NDIS.

Your name: _____

Desired number of simultaneous LAT sessions: _____

PC network card—find out your card's interrupt (IRQ) before you start:

3Com

- EtherLink 3C501
- EtherLink II 3C503
- EtherLink 16 3C507
- EtherLink III Series (3C509,3C5X9)
- EtherLink/MC 3C523

Hewlett-Packard

- EtherTwist 8 bit and 16 bit
- EtherTwist Plus
- EtherTwist MCA (Micro Channel)
- Ethertwist HPJ2405 (internal adapter)*
- Starlan 10 Link I
- ThinLAN (part # 27210x)
- ThinLAN (part # 27250A)

Intel

- EtherExpress16

Novell

- Novell NE1000 *
- Novell NE2000*

Racal Interlan

- NI5210
- NI9210

SMC

- EtherCard Plus Elite 16

UB Networks

(Ungermann-Bass)

- NIU pc
- NIU pc/EOTP
- NIU ps

Western Digital

- EtherCard Plus

Xircom

- Pocket Ethernet Adapter
- Pocket Ethernet Adapter II
- Pocket Ethernet Adapter III
- Other Ethernet Driver

* You must copy the driver to \WRQNET yourself.

Do you use Novell Netware? Yes No

If so, the packet type you use (if you don't know the answer, use the default):

- Ethernet_II
- 802.2
- 802.3

If you use Windows, your Windows directory:

If you use Reflection for Windows, your Reflection directory (list all):

LAT Connection

Ask your System Administrator if you should use ODI or NDIS.

Your name: _____

Desired number of simultaneous LAT sessions: _____

PC network card—find out your card's interrupt (IRQ) before you start:

3Com

- EtherLink 3C501
- EtherLink II 3C503
- EtherLink 16 3C507
- EtherLink III 3C509
- EtherLink/MC 3C523

Cabletron

- NDI-20xx Ether ISA
- NDI-21xx Ether ISA
- NDI-30xx Ether MCA
- NDI-31xx Ether MCA

Hewlett-Packard

- EtherTwist 8 bit
- EtherTwist Plus
- EtherTwist MCA (Micro Channel)
- EtherTwist HPJ2405 (internal adapter)
- Starlan 10 Link I
- ThinLAN (part # 27210x)
- ThinLAN (part # 27250A)

Intel

- EtherExpress 16

Novell

- Novell NE1000
- Novell NE2000

Racial Interlan

- N15210

SMC

- EtherCard Elite 16 Ultra
- EtherCard Plus Elite 16

UB Networks

(Ungermann-Bass)

- NIUpc
- NIUpc/EOTP
- NIUps

Western Digital

- EtherCard Plus

Xircom

- Pocket Ethernet Adapter
- Pocket Ethernet Adapter II
- Pocket Ethernet Adapter III

- Other Ethernet Driver

Do you use Novell Netware?

Yes No

If so, the packet type you use (if you don't know the answer, use the default):

Ethernet_II 802.3

If you use Windows, your Windows directory:

If you use Reflection for Windows, your Reflection directory (list all):

TCP Connection

Ask your System Administrator if you should use ODI or NDIS.

Your name: _____

Desired number of simultaneous sessions for each protocol: Telnet _____ LAT _____

PC network card—find out your card's interrupt (IRQ) before you start:

3Com

- EtherLink 3C501
- EtherLink II 3C503
- EtherLink 16 3C507
- EtherLink III Series (3C509,3C5X9)
- EtherLink/MC 3C523
- TokenLink 3C619

Hewlett-Packard

- EtherTwist 8 bit and 16 bit
- EtherTwist Plus
- EtherTwist MCA (Micro Channel)
- Ethertwist HPJ2405 (internal adapter)*
- Starlan 10 Link I
- ThinLAN (part # 27210x)
- ThinLAN (part # 27250A)

IBM

- Token-Ring 16/4 Adapter

Intel

- EtherExpress16
- TokenExpress16

Novell

- Novell NE1000*
- Novell NE2000*

Racal Interlan

- N15210
- N19210

SMC

- EtherCard Plus Elite 16
- TokenCard Elite

UB Networks

(Ungermann-Bass)

- NIUpc
- NIUpc/EOTP
- NIUps

Western Digital

- EtherCard Plus

Xircom

- Pocket Ethernet Adapter
- Pocket Ethernet Adapter II
- Pocket Ethernet Adapter III
- Pocket TokenRing Adapter

* You must copy the driver to \WRQNET yourself.

Do you use Novell Netware?

Yes No

If you use NetWare on Ethernet, the packet type you use (if you don't know the answer, use the default):

Ethernet_II 802.2 802.3

Do you use NetBIOS with LAN Manager or Windows for Workgroups?

Yes No

Local IP (Internet) address of this PC:

Example: 192.1.1.36

ODI
LAT Connection

PC Domain Name Service Host Name:

Example: SIMPSON.MFG.COM or SIMPSON.JR.MFG.COM

IP address service

HOSTS file location, if used on your network—for example, C:\WRQNET

Domain name server IP address, if used on your network:

Do you run an application that uses Windows Sockets or TCP Sockets? Yes No

*Examples: Reflection for Windows, Reflection X, or database front ends such as HP AllBase, Oracle SQL *Net, PC e-mail, and packages such as HP OpenMail and NewWave Mail.*

Do you run an application that uses NetIPC? Yes No

Examples: HP AdvanceMail, HP Information Access.

If you use Windows, your Windows directory:

If you use Reflection for Windows, your Reflection directory (list all):

TCP Connection

Ask your System Administrator if you should use ODI or NDIS.

Your name: _____

Desired number of simultaneous sessions for each protocol: Telnet _____ LAT _____

PC network card—find out your card's interrupt (IRQ) before you start:

3Com

- EtherLink 3C501
- EtherLink II 3C503
- EtherLink 16 3C507
- EtherLink III 3C509
- EtherLink/MC 3C523
- TokenLink 3C619

Cabletron

- NDI-20xx Ether ISA
- NDI-21xx Ether ISA
- NDI-30xx Ether MCA
- NDI-31xx Ether MCA

Hewlett-Packard

- EtherTwist 8 bit and 16 bit
- EtherTwist Plus
- EtherTwist MCA (Micro Channel)
- Ethertwist HPJ2405 (internal adapter)
- Starlan 10 Link I
- ThinLAN (part # 27210x)
- ThinLAN (part # 27250A)

IBM

- Token-Ring 16/4 Adapter

Intel

- EtherExpress16
- TokenExpress16

Novell

- Novell NE1000
- Novell NE2000

Racal Interlan

- N15210
- N19210

SMC

- EtherCard Elite 16 Ultra
- EtherCard Plus Elite 16
- Token Card Elite

UB Networks

(Ungermann-Bass)

- NIUpc
- NIUpc/EOTP
- NIUps

Western Digital

- EtherCard Plus

Xircom

- Pocket Ethernet Adapter
- Pocket Ethernet Adapter II
- Pocket Ethernet Adapter III

- Other Ethernet Driver
- Other Token-Ring Driver

Do you use Novell Netware? Yes No

If you use NetWare on Ethernet, the packet type you use (if you don't know the answer, use the default):

Ethernet_II 802.3

Do you use NetBIOS with LAN Manager or Windows for Workgroups? Yes No

Local IP (Internet) address of this PC:

Example: 192.1.1.36

PC Domain Name Service Host Name:

Example: SIMPSON.MFG.COM or SIMPSON.JR.MFG.COM

IP address service

HOSTS file location, if used on your network—for example, C:\WRQNET

Domain name server IP address, if used on your network:

Do you run an application that uses Windows Sockets or TCP Sockets? Yes No

*Examples: Reflection for Windows, Reflection X, or database front ends such as HP AllBase, Oracle SQL *Net, PC e-mail, and packages such as HP OpenMail and NewWave Mail.*

Do you run an application that uses NetIPC? Yes No

Examples: HP AdvanceMail, HP Information Access.

If you use Windows, your Windows directory:

If you use Reflection for Windows, your Reflection directory (list all):

NS Connection

Ask your System Administrator if you should use ODI or NDIS.

Your name: _____

Desired number of simultaneous NS/VT sessions: _____

PC network card—find out your card's interrupt (IRQ) before you start:

3Com

- EtherLink 3C501
- EtherLink II 3C503
- EtherLink 16 3C507
- EtherLink III Series (3C509,3C5X9)
- EtherLink/MC 3C523
- TokenLink 3C619

Hewlett-Packard

- EtherTwist 8 bit and 16 bit
- EtherTwist Plus
- EtherTwist MCA (Micro Channel)
- Ethertwist HPJ2405 (internal adapter)*
- Starlan 10 Link I
- ThinLAN (part # 27210x)
- ThinLAN (part # 27250A)

IBM

- Token-Ring 16/4 Adapter
- EtherExpress16
- TokenExpress16

Intel

- EtherExpress16
- TokenExpress16

Novell

- Novell NE1000*
- Novell NE2000*

Racal Interlan

- NI5210
- NI9210

SMC

- EtherCard Plus Elite 16
- TokenCard Elite

UB Networks (Ungermann-Bass)

- NIUpc
- NIUpc/EOTP
- NIUps

Western Digital

- EtherCard Plus

Xircom

- Pocket Ethernet Adapter
- Pocket Ethernet Adapter II
- Pocket Ethernet Adapter III
- Pocket TokenRing Adapter

* You must copy the driver to \WRQNET yourself.

Do you use Novell Netware? Yes No

If you use NetWare on Ethernet, the packet type you use (if you don't know the answer, use the default):

- Ethernet_II
- 802.2
- 802.3

Do you use NetBIOS with LAN Manager or Windows for Workgroups? Yes No

Local IP (Internet) address of this PC:

Example: 192.1.1.36

HP Network service address of your PC:

Example: **MYPC.DIVISION.COMPANY**

node

domain

organization

PC Domain Name Service Host Name:

Example: SIMPSON.MFG.COM or SIMPSON.JR.MFG.COM

IP address service

HOSTS file location, if used on your network—for example, C:\WRQNET

Domain name server IP address, if used on your network:

Do you run an application that uses Windows Sockets or TCP Sockets?

Yes No

Examples: Reflection for Windows, Reflection X, or database front ends such as HP AllBase, Oracle SQL, *Net, PC e-mail, and packages such as HP OpenMail and NewWave Mail.

Do you run an application that uses NetIPC?

Yes No

Examples: HP AdvanceMail, HP Information Access.

If you use Windows, your Windows directory:

Part 4: Other Authors (Total 10)

NS Connection

Ask your System Administrator if you should use ODI or NDIS.

Your name: _____

Desired number of simultaneous NS/VT sessions: _____

PC network card—find out your card's interrupt (IRQ) before you start:

3Com

- EtherLink 3C501
- EtherLink II 3C503
- EtherLink 16 3C507
- EtherLink III 3C509
- EtherLink/MC 3C523
- TokenLink 3C619

Cabletron

- NDI-20xx Ether ISA
- NDI-21xx Ether ISA
- NDI-30xx Ether MCA
- NDI-31xx Ether MCA

Hewlett-Packard

- EtherTwist 8 bit and 16 bit
- EtherTwist Plus
- EtherTwist MCA (Micro Channel)
- EtherTwist HPJ2405 (internal adapter)
- Starlan 10 Link I
- ThinLAN (part # 27210x)
- ThinLAN (part # 27250A)

IBM

- Token-Ring 16/4 Adapter

Intel

- EtherExpress16
- TokenExpress16

Novell

- Novell NE1000
- Novell NE2000

Racal Interlan

- NI5210
- NI9210

SMC

- EtherCard Elite 16 Ultra
- EtherCard Plus Elite 16
- TokenCard Elite

UB Networks (Ungermann-Bass)

- NIU pc
- NIU pc/EOTP
- NIU ps

Western Digital

- EtherCard Plus

Xircom

- Pocket Ethernet Adapter
- Pocket Ethernet Adapter II
- Pocket Ethernet Adapter III

NDIS
NS Connection

Do you use Novell Netware? Yes No

If you use NetWare on Ethernet, the packet type you use (if you don't know the answer, use the default):

Ethernet_II 802.3

Do you use NetBIOS with LAN Manager or Windows for Workgroups? Yes No

Local IP (Internet) address of this PC:

Example: 192.1.1.36

HP Network service address of your PC:

Example: **MYPC.DIVISION.COMPANY**

node

domain

organization

PC Domain Name Service Host Name:

Example: **SIMPSON.MFG.COM** or **SIMPSON.JR.MFG.COM**

IP address service

HOSTS file location if used on your network—for example, C:\WRQNET

Domain name server IP address, if used on your network:

Do you run an application that uses Windows Sockets or TCP Sockets?

Yes No

Examples: Reflection for Windows, Reflection X, or database front ends such as HP AllBase, Oracle SQL *Net, PC e-mail, and packages such as HP OpenMail and NewWave Mail.

Do you run an application that uses NetIPC? Yes No

Examples: HP AdvanceMail, HP Information Access.

If you use Windows, your Windows directory:

If you use Reflection for Windows, your Reflection directory (list all):

3000 Connection

Ask your System Administrator if you should use ODI or NDIS.

Your name: _____

Desired number of simultaneous sessions for each protocol: NS/VT _____ Telnet _____ LAT _____

PC network card—find out your card's interrupt (IRQ) before you start:

3Com

- EtherLink 3C501
- EtherLink II 3C503
- EtherLink 16 3C507
- EtherLink III Series (3C509,3C5X9)
- EtherLink/MC 3C523
- TokenLink 3C619

Hewlett-Packard

- EtherTwist 8 bit and 16 bit
- EtherTwist Plus
- EtherTwist MCA (Micro Channel)
- Ethertwist HPJ2405 (internal adapter)*
- Starlan 10 Link I
- ThinLAN (part # 27210x)
- ThinLAN (part # 27250A)

IBM

- Token-Ring 16/4 Adapter

Intel

- EtherExpress16
- TokenExpress16

Novell

- Novell NE1000*
- Novell NE2000*

Racal Interlan

- NI5210
- NI9210

SMC

- EtherCard Plus Elite 16
- Token Card Elite

UB Networks

(Ungermann-Bass)

- NIUpc
- NIUpc/EOTP
- NIUps

Western Digital

- EtherCard Plus

Xircom

- Pocket Ethernet Adapter
- Pocket Ethernet Adapter II
- Pocket Ethernet Adapter III
- Pocket TokenRing Adapter

- Other Ethernet Driver
- Other Token-Ring Driver

* You must copy the driver to \WRQNET yourself.

Do you use Novell Netware?

Yes No

If you use NetWare on Ethernet, the packet type you use (if you don't know the answer, use the default):

Ethernet_II 802.2 802.3

Do you use NetBIOS with LAN Manager or Windows for Workgroups? Yes No

Local IP (Internet) address of this PC:

Example: 192.1.1.36

HP Network service address of your PC:

Example: MYP.C.DIVISION.COMPANY

node . *domain* . *organization*

PC Domain Name Service Host Name:

Example: SIMPSON.MFG.COM or SIMPSON.JR.MFG.COM

IP address service

HOSTS file location, if used on your network—for example, C:\WRQNET

Domain name server IP address, if used on your network:

Do you run an application that uses Windows Sockets or TCP Sockets? Yes No

*Examples: Reflection for Windows, Reflection X, or database front ends such as HP AllBase, Oracle SQL *Net, PC e-mail, and packages such as HP OpenMail and NewWave Mail.*

Do you run an application that uses NetIPC? Yes No

Examples: HP AdvanceMail, HP Information Access.

If you use Windows, your Windows directory:

If you use Reflection for Windows, your Reflection directory (list all):

3000 Connection

Ask your System Administrator if you should use ODI or NDIS.

Your name: _____

Desired number of simultaneous sessions for each protocol: NS/VT _____ Telnet _____ LAT _____

PC network card—find out your card's interrupt (IRQ) before you start:

3Com

- EtherLink 3C501
- EtherLink II 3C503
- EtherLink 16 3C507
- EtherLink III Series (3C509,3C5X9)
- EtherLink/MC 3C523
- TokenLink 3C619

Cabletron

- NDI-20xx Ether ISA
- NDI-21xx Ether ISA
- NDI-30xx Ether MCA
- NDI-31xx Ether MCA

Hewlett-Packard

- EtherTwist 8 bit and 16 bit
- EtherTwist Plus
- EtherTwist MCA (Micro Channel)
- EtherTwist HPJ2405 (internal adapter)
- Starlan 10 Link I
- ThinLAN (part # 27210x)
- ThinLAN (part # 27250A)

IBM

- Token-Ring 16/4 Adapter
- EtherExpress16
- TokenExpress16

Novell

- Novell NE1000
- Novell NE2000

Racal Interlan

- NI5210
- NI9210

SMC

- EtherCard Elite 16 Ultra
- EtherCard Plus Elite 16
- TokenCard Elite

UB Networks

(Ungermann-Bass)

- NIUpc
- NIUpc/EOTP
- NIUps

Western Digital

- EtherCard Plus

Xircom

- Pocket Ethernet Adapter
- Pocket Ethernet Adapter II
- Pocket Ethernet Adapter III

Do you use Novell Netware? Yes No

If you use NetWare on Ethernet, the packet type you use (if you don't know the answer, use the default):

Ethernet_II 802.3

Do you use NetBIOS with LAN Manager or Windows for Workgroups? Yes No

Local IP (Internet) address of this PC:

Example: 192.1.1.36

HP Network service address of your PC:

Example: MYP.C.DIVISION.COMPANY

node

domain

organization

PC Domain Name Service Host Name:

Example: SIMPSON.MFG.COM or SIMPSON.JR.MFG.COM

IP address service

HOSTS file location, if used on your network—for example, C:\WRQNET

Domain name server IP address, if used on your network:

Do you run an application that uses Windows Sockets or TCP Sockets?

Yes No

*Examples: Refection for Windows, Reflection X, or database front ends such as HP AllBase, Oracle SQL*Net, PC e-mail, and packages such as HP OpenMail and NewWave Mail.*

Do you run an application that uses NetIPC?

Yes No

Examples: HP AdvanceMail, HP Information Access.

If you use Windows, your Windows directory:

If you use Reflection for Windows, your Reflection directory (list all):



